



# Represent Unit Fraction Multiplication

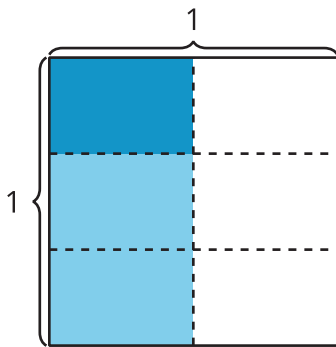
Let's write expressions to represent multiplication of unit fractions.

## Warm-up

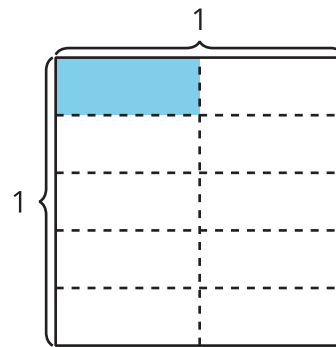
### Which Three Go Together: Diagrams

Which 3 go together?

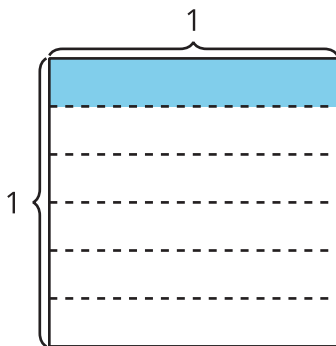
A



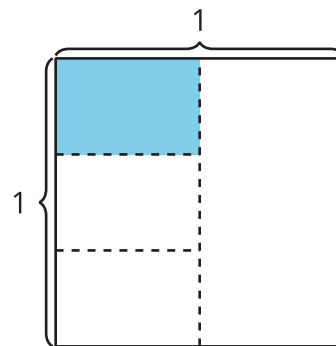
B



C



D



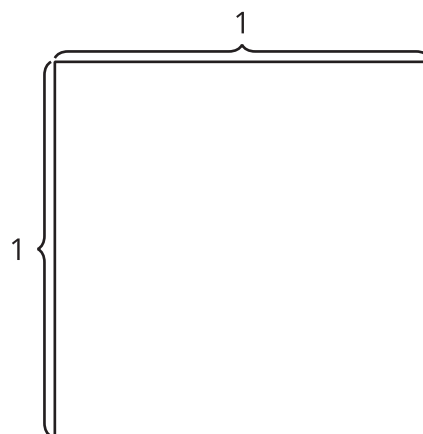
## Activity 1

### Interpret Diagrams

1. Show  $\frac{1}{3}$  of the square.

Shade  $\frac{1}{4}$  of  $\frac{1}{3}$  of the square.

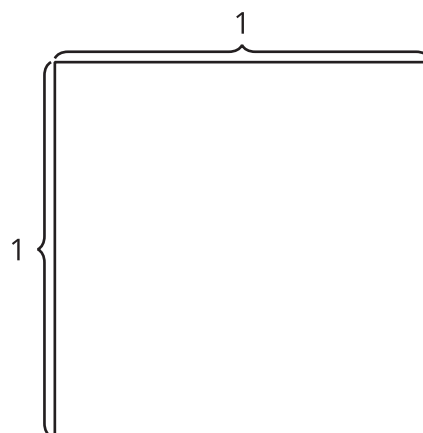
How much of the whole square is shaded?



2. Show  $\frac{1}{4}$  of the square.

Shade  $\frac{1}{3}$  of  $\frac{1}{4}$  of the square.

How much of the whole square is shaded?



3. How are the diagrams alike? How are they different?

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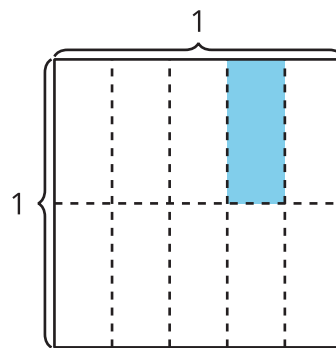
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## Activity 2

### Write an Expression

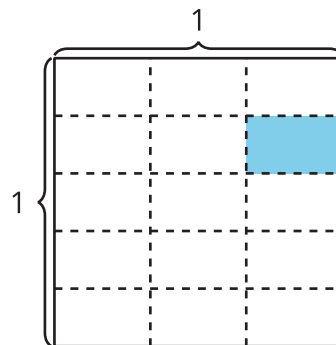
Priya shaded part of a square.

1. How does the expression  $\frac{1}{5} \times \frac{1}{2}$  represent the area of the shaded part? Explain or show your reasoning.



2. How does the expression  $\frac{1}{2} \times \frac{1}{5}$  represent the area of the shaded part? Explain or show your reasoning.

3. Write a multiplication expression to represent the area of the shaded piece. Explain or show your reasoning.



4. How much of the whole square is shaded?